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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/385,607		08/30/1999	WILLIAM M. PARROTT	008193-20001	9412	
25694	7590	08/23/2006		EXAMINER		
	ORPORA'	TION	CALLAHAN, PAUL E			
P.O. BOX 5326 SANTA CLARA, CA 95056-5326				ART UNIT	PAPER NUMBER	
	,			2137		
				DATE MAILED: 08/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)					
		09/385,60	7	PARROTT					
	Office Action Summary	Examiner		Art Unit					
		Paul Callal		2137					
Period fo	 The MAILING DATE of this communication 	ion appears on the	cover sheet with the c	orrespondence ac	idress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communically period for reply is specified above, the maximum statutor are to reply within the set or extended period for reply will, the reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF TH CFR 1.136(a). In no eve ation. y period will apply and will by statute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim l expire SIX (6) MONTHS from cation to become ABANDONE	N. nety filed the mailing date of this of U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed or	n Amendment filed	d 6-8-06						
,—	·	☐ This action is no							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims	·							
·	Claim(s) 1-7 and 10-21 is/are pending ir	the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) <u>1-7 and 10</u> is/are allowed.								
′=	Claim(s) <u>11,12,15 and 19-21</u> is/are reject	cted.							
7)	·								
8)□	Claim(s) are subject to restriction	and/or election re	quirement.						
Applicati	ion Papers								
9)□	The specification is objected to by the Ex	caminer.							
• —	The drawing(s) filed on is/are: a)[objected to by the I	Examiner.					
,—	Applicant may not request that any objection	· ·							
	Replacement drawing sheet(s) including the				FR 1.121(d).				
11)	The oath or declaration is objected to by	the Examiner. No	te the attached Office	Action or form P	TO-152.				
Priority ι	ınder 35 U.S.C. § 119								
12)	Acknowledgment is made of a claim for f	oreign priority und	ler 35 U.S.C. § 119(a)	-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority doc	uments have beer	received.						
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the	ne priority docume	nts have been receive	ed in this National	Stage				
	application from the International	Bureau (PCT Rule	: 17.2(a)).						
* 5	See the attached detailed Office action fo	r a list of the certif	ied copies not receive	d.					
Attachmen	t(s)		_						
	e of References Cited (PTO-892)	1401	4) Interview Summary Paper No(s)/Mail Da						
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date	•		Informal Patent Application (PTO-152)					

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DETAILED ACTION

1. Claims 1-21 were pending in this application at the time of the previous Office Action. By the latest amendment claims 8 and 9 have been cancelled. Therefore claims 1-7 and 10-21 are pending and have been examined.

Response to Arguments

2. Applicant's arguments filed 6-8-06 have been fully considered but they are not fully persuasive.

The applicant argues in traverse of the rejection of claim 11 under 35 USC 103(a) as unpatentable over T. Hong: "Security Policy for Palladium Secure Modem" and Aucsmith US 5,712,914, by asserting that the combination fails to teach an identifying indicia that includes graphics data that includes the image of at least one credit card including a credit card number. Yet Hong does indeed teach these features at fig. 7 element 902: "Image of a Card".

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 11, 12, 15, and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over T. Hong: "Security Policy for Palladium Secure Modem", Doc. No. D1028, Mykotronix Inc., 11/20/1998, (from >http://csrc.nist.gov/cryptval/140-1/140sp/140sp061.pdf<), and Aucsmith et al., US 5,712,914.

As for claim 11, Hong teaches a secure communications modem (page 4: Scope of Document: the Palladium modem is taught as being a secure modem capable of carrying out encryption operations), comprising: a program memory adapted to store a program controlling aspects of modem operation (page 18 last full paragraph, the following passage is recited: "The Data-In Block is used to provide input data to commands executed on the card..." page 4, the second paragraph recites: "The card provides 41 individual commands which can be used to support cryptographic based authentication and encryption applications); and a processor, coupled to the program memory, the processor excluding at least a portion of a program store in the program memory to control at least an aspect of modem operation (page 18 last full paragraph, the following passage is recited: "The Data-In Block is used to provide input data to commands executed on the card...", page 4, the second paragraph recites: "The card provides 41 individual commands which can be used to support cryptographic based authentication and encryption applications, this reads on the presence of a processor on the card as well), the program adapted to cause the processor, under control of the program, to read identifying indicia stored integrally within the modem (page 14 Security Rule 21: the card can store at least 27 certificates, page 16: Security Relevant Data: the

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card stores an X.509 certificate unique to an individual user and therefore will contain X.509 data unique to a user constituting an indicia, page 20: Service: Get Certificate: outputs a certificate via use of the processor), and communicate the identifying indicia to a host communicating with the modem (page 18, bottom paragraph, first two lines: "the host application and PALLADIUM Secure Modem communicate by means of a shared memory interface consisting of a Data-In Block and a Data-Out Block...the Data-Out Block is used to provide output data to the (host) application program). Hong does not teach the identifying indicia as including graphics data, the graphics data comprising an image of at least one of a credit card, a signature, or an account holder. Hong does however teach the storage of X.509 certificates in the modem (page 16: Certificate). Aucsmith et al. teach X.509 certificates having extensions that include these indicia (fig. 7: element 708 "Picture", fig. 9 element 908: "User's Signature", element 914: "User's Photo", element 920: "Image of Card", col. 2 lines 13-20, col. 4 lines 1-5, col. 4 lines 38-42: the X.509 Certificate is taught as containing the multimedia extensions, col. 6 lines 45-53 and 60-67, col. 12 lines 3-11). The image of a card as taught by Hong will inherently contain the card number. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Hong. It would have been desirable to do so since use of the multimedia extensions to the X.509 certificate would allow for greater assurance in, for example, user identification. This is addressed in Aucsmith et al., col. 13 lines 5-25, and also in Hong page 14 item 15 where a user chooses a certificate or "personality" for use in cryptographic operations requiring authentication, for example digital signing or key.

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As for claim 12, Hong teaches the modem of claim 11, wherein the identifying indicia are stored in an indicia memory physically or locally adjacent to the program memory (page 18: last 3 lines: the card stores certificates according to a certificate index used by program to retrieve a certificate, program memory is discussed in the remainder of the paragraph. Therefore the certificate storage memory is physically and locally adjacent to the program memory).

As for claim 15, Hong does not explicitly teach the secure communication method of claim 5, further comprising encrypting the identifying indicia prior to causing the identifying indicia to be transmitted over the communications line, or transmitted to a host. However Hong does teach the use and transmission of an X.509 certificate (bearing indicia) that will therefore have a signature portion that does in fact represent a signed, i.e., encrypted (hash) of the certificate (and hence indicia) when transmitted. Aucsmith teaches an X.509 certificate having multimedia extensions comprising the indicia as taught by claim 1 (fig. 7: element 708 "Picture", fig. 9 element 908: "User's Signature", element 914: "User's Photo", element 920: "Image of Card", col. 2 lines 13-20, col. 4 lines 1-5, col. 4 lines 38-42: the X.509 Certificate is taught as containing the multimedia extensions, col. 6 lines 45-53 and 60-67, col. 12 lines 3-11), and Aucsmith teaches a signature field for the X.509 certificate that represents an encrypted (hash) representation of the certificate and therefore and encrypted representation of the

multimedia indicia (col. 4 lines col. 55-58). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature into the system of Hong. It would have been desirable to do so since use of the multimedia extensions to the X.509 certificate would allow for greater assurance in, for example, user identification. This is addressed in Aucsmith et al., col. 13 lines 5-25, and also in Hong page 14 item 15 where a user chooses a certificate or "personality" for use in cryptographic operations requiring authentication such as, for example, digital signing or key exchange. The ability to incorporate the multimedia extension data (indicia) in the signed hash of the certificate would increase the fidelity of authentication since more data unique to a user is thereby incorporated into the signed hash.

As for claim 19, Hong does not teach claim the modem of claim 11, wherein the identifying indicia includes an account number for a financial transaction account. However Aucsmith does teach this feature (fig. 9 element 906). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature into the system of Hong. It would have been desirable to do so as this would increase the utility and hence marketability of the secure modem to financial institutions.

As for claim 20, the combination of Hong and Aucsmith does not explicitly teach the use of non-volatile memory to store the indicia, although such is implied by the use of a "Zeroize" command to clear the memory of any stored certificate (page 8: Zeroize). However Official notice may be taken that the use of non-volatile memory in a modem

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to store user indicia, for example password and PIN data, is a step that is old and well known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature into the system of Hong and Aucsmith. It would have been desirable to do so in order to allow a host processor to be "powered down" either deliberately or inadvertently, without losing all stored indicia data.

As for claim 21, the combination of Hong and Aucsmith do not teach storage of the indicia in nonvolatile memory as per claim 20, where the storage is in a compressed format. Yet Official Notice may be taken that the use of such a format for storage in nonvolatile memory is old and well known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature into the system of Hong and Aucsmith. It would have been desirable to do so as this would maximize the storage capacity of the Modem.

Allowable Subject Matter

- 5. 1-7, and 10 are allowed.
- 6. Claims 13, 14, and 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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7. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art in the field, Hong and Aucsmith, do not teach the combination of features recited in independent claim 11, particularly including:

As per claim 13, indicia memory that is writeable only when program memory is overwritten,

As for claims 14: indicia that are stored permanently within the modem,

As per claim 16 the modem of claim 14, including means for encrypting the indicia prior to communicating it to the host,

As for claim 17, the modem of claim 15, wherein the identifying indicia are stored within a write once memory array and are accessible in a register read operation by the processor,

As for claim 18, the modem of claim 14 including an indicia that identifies part of a financial transaction.

8. The following is an examiner's statement of reasons for allowance: The closest prior art in the field, Hong and Aucsmith, do not teach the combination of features

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recited in independent claim 1, particularly including indicia that are writeable only when program memory is overwritten. Claims 2-7 and 10 are dependent on claim 1 and are thereby allowable on that basis.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (571) 272-3869. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Emmanuel Moise, can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is: (571) 273-8300.

8/16/06

PEC Pul Callahan

SUPERVISORY PATENT EXAMINER